



## SEQUENCE LISTING

<110> THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE  
WORLEY, Paul F.  
BRAKEMAN, Paul R.

<120> SYNAPTIC ACTIVATION PROTEIN COMPOSITIONS AND METHOD

<130> JHU1520-2

<140> US 09/910,706

<141> 2001-07-20

<150> US 09/042,428

<151> 1998-03-13

<150> US 60/036,553

<151> 1997-03-14

<160> 15

<170> PatentIn version 3.0

<210> 1

<211> 558

<212> DNA

<213> Rattus norvegicus

<220>

<221> CDS

<222> (1)...(558)

<400> 1

atg ggg gaa caa cct atc ttc agc act cga gct cat gtc ttc cag atc	48
Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile	
1 5 10 15	

gac cca aac aca aag aag aac tgg gta ccc acc agc aag cat gca gtt	96
Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val	
20 25 30	

act gtg tct tat ttc tat gac agc aca aag aat gtg tat agg ata atc	144
Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile	
35 40 45	

agt cta gac ggc tca aag gca ata ata aat agc acc atc act cca aac	192
Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn	
50 55 60	

atg aca ttt act aaa aca tct caa aag ttt ggc caa tgg gct gat agc	240
Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser	
65 70 75 80	

cgg gca aac act gtt tat gga ctg gga ttc tcc tct gag cat cat ctc	288
Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu	
85 90 95	

tca aaa ttt gca gaa aag ttt cag gaa ttt aaa gaa gct gct cgg ctg	336
Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu	
100 105 110	

gca aag gag aag tcg cag gag aag atg gaa ctg acc agt acc cct tca 384  
 Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser  
           115                                  120                                  125

cag gaa tca gca gga gga gat ctt cag tct cct tta aca cca gaa agt 432  
 Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser  
           130                                  135                                  140

atc aat ggg aca gat gat gag aga aca ccc gat gtg aca cag aac tca 480  
 Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser  
           145                                  150                                  155                                  160

gag cca agg gct gag cca gct cag aat gca ttg cca ttt tca cat agg 528  
 Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg  
                                   165                                  170                                  175

tac aca ttc aat tca gca atc atg att aaa 558  
 Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys  
                                   180                                  185

<210> 2  
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 Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val  
                                   20                                  25                                  30  
 Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile  
                                   35                                  40                                  45  
 Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn  
                                   50                                  55                                  60  
 Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser  
   65                                  70                                  75                                  80  
 Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu  
                                   85                                  90                                  95  
 Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu  
                                   100                                  105                                  110  
 Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser  
                                   115                                  120                                  125  
 Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser  
                                   130                                  135                                  140  
 Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser  
   145                                  150                                  155                                  160  
 Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg  
                                   165                                  170                                  175  
 Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys  
                                   180                                  185

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 <213> Homo sapiens

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Met Gly Glu Gln Pro Ile Phe Thr Thr Arg Ala His Val Phe Gln Ile  
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 Asp Pro Asn Thr Lys Lys Asn Trp Met Pro Ala Ser Lys His Gly His  
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 Arg Phe Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile Ser  
 35 40 45  
 Val Asp  
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 <212> PRT  
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Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile Ser Val Asp  
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 Gly Ala Lys Val Ile Ile Asn Ser Thr Ile Thr Pro Asn Met Thr Phe  
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 Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser Arg Ala Asn  
 35 40 45  
 Thr Val Phe Gly Leu Gly Phe Ser Ser Glu Leu Gln Leu Thr Lys Phe  
 50 55 60  
 Ala Glu Lys Phe Gln Glu Val Arg Glu Ala Ala Arg Leu Ala Arg Asp  
 65 70 75 80  
 Lys Ser Gln Glu Lys Thr Glu Thr Ser Ser Asn His Ser Gln Glu Ser  
 85 90 95  
 Gly Cys Glu Thr Pro Ser Ser Thr Gln Ala Ser Ser Val Asn Gly Thr  
 100 105 110  
 Asp Asp Glu Lys Ala Ser His Ala Ser Pro Ala Asp Thr His Leu Lys  
 115 120 125  
 Ser Glu Asn Asp Lys Leu Lys Ile Ala Leu Thr Gln Ser Ala Ala Asn  
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Arg Asp Tyr Lys Gln Ser Ser Ser Thr Leu  
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Glu Val Val Asp Ser Thr Thr Ser Ser Leu  
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Glu Val Leu Asp Ser Thr Thr Ser Ser Leu  
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Arg Asp Tyr Thr Gln Ser Ser Ser Ser Leu  
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<210> 10  
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<210> 11  
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<220>  
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<400> 11

Ser Ser Ser Leu  
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<210> 12  
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<213> Rattus norvegicus

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Ala Val Thr Val  
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<210> 13  
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Gly His Arg Phe  
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<210> 14  
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<400> 14

Gly Leu Gly Phe  
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<210> 15  
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<223> C-terminal motif

<400> 15

Thr Ser Ser Leu  
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